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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/581,610	06/05/2006	Tomoaki Masuda	062589	5485	
	834 7590 05/26/2010 'ESTERMAN, HATTORI, DANIELS & ADRIAN, LLP			EXAMINER	
1250 CONNECTICUT AVENUE, NW SUITE 700			BURKHART, ELIZABETH A		
WASHINGTON, DC 20036		ART UNIT	PAPER NUMBER		
		1715			
			NOTIFICATION DATE	DELIVERY MODE	
			05/26/2010	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentmail@whda.com

		Application No.	Applicant(s)			
Office Action Summary		10/581,610	MASUDA ET AL.			
		Examiner	Art Unit			
		Elizabeth Burkhart	1715			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)[\	Responsive to communication(s) filed on <u>17 M</u>	arch 2010				
•	This action is FINAL . 2b) This action is non-final.					
3)□	<i>,</i> —					
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
	closed in accordance with the practice under Ex pane Quayle, 1955 C.D. 11, 455 O.G. 215.					
Dispositi	on of Claims					
4)🛛	☑ Claim(s) <u>1-13</u> is/are pending in the application.					
	4a) Of the above claim(s) <u>8-12</u> is/are withdrawn from consideration.					
5)	5) Claim(s) is/are allowed.					
6)🖂	6) Claim(s) <u>1-7 and 13</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)	Claim(s) are subject to restriction and/or	r election requirement.				
Applicati	on Papers	·				
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ι	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notic 3) Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate			

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DETAILED ACTION

1. Claims 1-13 are pending in the application. Amended claim 1 and new claim 13 have been noted. The amendment filed 3/17/2010 has been entered and carefully considered.

Election/Restrictions

2. This application contains claims 8-12 drawn to an invention nonelected with traverse in the reply filed on 3/23/2009. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-7 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kameyama et al (WO 2004/013667) in view of Tanaka et al ('906) and Sugino et al (US 2003/0137732).

Note: Kameyama (US 2005/0271873) is being used as a translation of WO 2004/013667).

Kameyama et al discloses a method of fabricating a polarizing film by uniaxially stretching a resin film such as a polyvinyl alcohol-based film in a fabrication process including a swelling step and a dyeing step following the swelling step (Abstract).

Kameyama does not disclose at least two or more swelling baths in sequence prior to the dyeing step, wherein the temperature of the first bath (Nth) is higher than the temperature of the second bath (N+Mth) by 3°C or more.

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Tanaka discloses fabricating a polarizing film by uniaxially stretching a polyvinyl alcohol-based film in a process including a swelling step, a wet-stretching step, and a dyeing step. The film is immersed in a first swelling bath (15-35°C) and then stretched in a second swelling bath (15-60°C). After the stretching, the film is immersed in a dyeing bath (Abstract, Col. 5, lines 1-20 and 55-60). Tanaka further discloses that if the stretching temperature is too low, it is impossible to achieve a sufficient stretch ratio.

Sugino discloses that the stretch ratio may be adjusted appropriately corresponding to the temperature of the bath [0047].

It would have been obvious to one of ordinary skill in the art at the time of invention by applicant to incorporate the second swelling bath (stretching bath) of Tanaka prior to the dyeing step in the process of Kameyama since it was suitable to perform stretching prior to, during, or after drying, and adjust the temperature of the stretching bath, including temperatures 3°C or more lower than the first swelling bath as claimed, in order to achieve a sufficient stretch ratio as suggested by Sugino.

Regarding Claims 3-5, Tanaka discloses temperatures for the swelling bath and stretching bath as 15-35°C, 15-60°C, respectively (Col. 5, lines 1-7). Kameyama discloses a temperature for the dyeing bath as 20-70°C [0059]. The subject matter as a whole would have been obvious to one of ordinary skill in the art at the time of invention by applicant if the overlapping portion of the temperature ranges disclosed by Tanaka

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and Kameyama were selected because overlapping ranges have been held to be a prima facie case of obviousness, see In re Wortheim 191 USPQ 90.

Regarding Claims 6 and 7, Kameyama discloses immersing the film in the swelling baths for 50 seconds or less [0054], [0161] and that the film has a saponification degree of 95% or more and polymerization degree of 2000 or more [0044].

Thus, claims 1-7 and 13 would have been obvious within the meaning of 35 USC 103 over the combined teachings of Kameyama, Tanaka, and Sugino.

Response to Arguments

4. Applicant's arguments filed 3/17/2010 have been fully considered but they are not persuasive. Applicant argues that the cited references do not disclose or provide any reason that the bath temperature of the preceding swelling bath (the Nth swelling bath) is set at a higher temperature by 3°C or more than the temperature of the following swelling bath. The examiner disagrees. Tanaka discloses that the first swelling bath temperature may be set to 15-35°C and the second swelling bath may be set to 15-60°C (Col. 5, lines 1-20). It would have been obvious to the skilled person to adjust the temperatures of the two baths within the ranges of Tanaka, including values in which the first bath temperature is higher than the second bath temperature, in order to adjust the stretch ratio as evidenced by Sugino [0047].

Applicant further argues that in the preferred examples, Tanaka discloses setting the first swelling bath at a temperature lower than the second swelling bath. The examiner agrees. However, "a reference may be relied upon for all that it would have

reasonably suggested to one having ordinary skill in the art, including nonpreferred embodiments." (MPEP 2123 I). The ranges set forth in Tanaka clearly allow for the first bath to be set to a higher temperature than the second, such as if the first bath is 30°C and the second bath is 25°C, and Sugino discloses that the bath temperature may be adjusted in order to adjust the stretch ratio [0047].

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elizabeth Burkhart whose telephone number is (571)272-6647. The examiner can normally be reached on M-Th 7-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on 571-272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Elizabeth Burkhart/ Examiner, Art Unit 1715

/Timothy H Meeks/ Supervisory Patent Examiner, Art Unit 1715